

# LTBP096108-W | DATASHEET

OPTO ENGINEERING

## High Power strobed LED backlight, 96 x 108 mm illumination area, white



### SPECIFICATIONS

#### Lightning specifications

Modules		2x3
Illumination area width	(mm)	96
Illumination area height	(mm)	108
Number of LEDs		288
Light color, peak wavelength		white, > 4500 K
Spectral FWHM	(nm)	-
Illuminance <sup>1</sup>	(klux)	200
Irradiance <sup>1</sup>	(W/m <sup>2</sup> )	-
Diffuser		yes
Collimation film		no

#### Electrical specifications

Power supply mode		Strobe only, constant current driving
Peak power consumption	(W)	285.1
Max pulse current <sup>2</sup>	(A)	10.8
Typical pulse voltage	(V)	26.4
Max pulse duration	(ms)	1
Max duty cycle	(%)	1.5
Max continuous current	(mA)	30
Estimated MTBF <sup>3</sup>	(hours)	> 50000
Connector		M8
Included cable		CBLT003

### KEY ADVANTAGES

#### Excellent uniformity

#### Test report with measured uniformity

#### Ultra high-power light output and strobe mode operation

For inspection and measurement of fast moving objects and an extended LED lifetime

#### Suitable for frequent cleaning

Thanks to the optical grade and scratch resistant protective cover

#### Wide selection and modular design

Size options range from 48 x 36 to 288 x 216 mm available in red, white, green, blue and infrared

#### Compact design with reduced thickness (26 mm)

#### Special continuous alignment mode

#### Optional integrated collimation film

The LTBP series offers high power LED backlights designed to provide exceptional illumination performances and excellent uniformity.

#### Mechanical specifications

Length	(mm)	108.0
Width	(mm)	128.0
Height	(mm)	26.0
Mass	(g)	773
Clamping system		4x M6 threaded holes
<b>Environment</b>		
Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
IP rating		IP40
Installation		Indoor use only

#### Eye safety

Risk group (CEI EN 62471:2010)	Exempt
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<sup>1</sup> Minimum value, at max driving current, on emitting surface. Where n.a. is reported data is available upon request.

<sup>2</sup> Models where two currents are listed (such as LTBP240180-R) feature two separate channels.

<sup>3</sup> At 25°C

## CONNECTOR PINOUT



Function	Cable color
LED +	Brown
LED +	White
LED -	Blue
LED -	Black

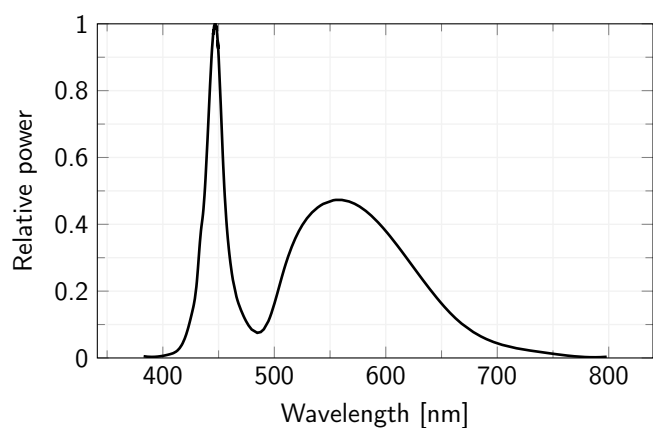
## COMPATIBLE PRODUCTS

Full list of compatible products available [here](#).

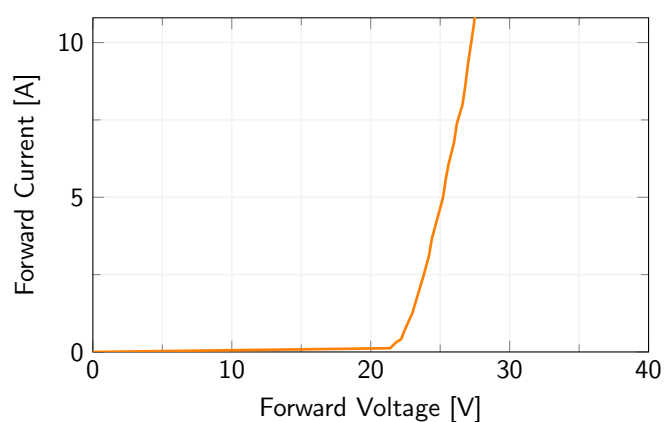


A wide selection of innovative machine vision components.

## LED color spectrum



## Forward Current Characteristics



## Emission angle

